

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appellant(s):	Pan	Examiner:	Sefcheck
Serial No. :	09/638,373	Group Art No. :	2662
Filed :	August 15, 2000		
Atty Docket :	120-296		
Title :	Method and Apparatus for Implementing A Policy-Based Management System on a Network Device		

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Paper Correcting Appeal Brief, Summary of Claimed Subject Matter

This Paper Correcting Appeal Brief, Summary of Claimed Subject Matter, is hereby submitted in response to the Office Communication dated 12/05/2007. Please substitute the below amended Summary of Claimed Subject Matter for the original Summary of Claimed Subject Matter submitted with the Appeal Brief filed on 01/17/2007.

V. **Summary of Claimed Subject Matter (Substitute)**

The subject matter of independent claim 1 is directed to a method of allocating resources on a network, and includes receiving a request for reservation of network resources, the reservation including a destination address on the network and a future activation time at which the resources are to be activated, as supported by disclosures in the Specification including step 40 of Fig. 3, Fig. 6A, step 52 of Fig. 12, step 68 of Fig. 13, lines 3-5 on page 2, lines 1-2 on page 3, lines 1-3 and 20-23 on page 6, and lines 1-3 on page 7. Claim 1 also sets forth allocating resources on network devices on a path to the destination address to accommodate the reservation if the network devices have sufficient resources to accommodate the reservation, wherein the allocating is at the future activation time, and wherein the allocating includes communicating over the network at the future activation time with at least one policy enforcement point, as supported by disclosures in the Specification including steps 46, 48 and 50 of Fig. 3, lines 5-8 on page 2, lines 10-12 on page 3, line 14 on page 12 through line 3 on page 13, lines 19-22 on page 13, and at line 3 on page 24 through line 3 on page 25.

Claim 1 further sets forth that the policy enforcement point is on the path and at an edge of the network, that the communicating includes configuring the at least one policy enforcement point by installing, at the future activation time, at least one internet protocol traffic filter in the policy enforcement point, that the installing activates the requested reservation of network resources for the

destination address on the network, that the internet protocol traffic filter includes a matching criteria and an action, that the matching criteria includes at least one internet protocol network address, and that the matching criteria allows the policy enforcement point to identify at least one packet and to perform the action on the packet, as supported by disclosures in the Specification including step 80 of Fig. 10, lines 21-22 of page 2, lines 2-3 of page 3, line 8 on page 22 through line 4 on page 23, line 15 through 19 on page 25, and lines 17 through 21 on page 26.

The subject matter of independent claim 15 is directed to a computer program stored on a computer-readable medium for allocating resources on a network, and includes causing a computer to receive a request for reservation of network resources, the reservation including a destination address on the network and a future activation time at which the resources are to be activated, as supported by disclosures in the Specification including step 40 of Fig. 3, Fig. 6A, step 52 of Fig. 12, step 68 of Fig. 13, lines 3-5 on page 2, lines 1-2 on page 3, lines 1-3 and 20-23 on page 6, and lines 1-3 on page 7. Claim 15 also sets forth causing the computer to allocate resources on network devices on a path to the destination address to accommodate the reservation if the network devices have sufficient resources to accommodate the reservation, wherein the allocating is at the future activation time, and wherein the allocating includes communicating over the network at the future activation time with at least one policy enforcement point, as supported by disclosures in the Specification including steps 46, 48 and 50 of Fig. 3, lines 5-8 on page 2, lines 10-12 on page 3, line 14 on page 12 through line 3 on page 13, lines 19-22 on page 13, and at line 3 on page 24

through line 3 on page 25.

Claim 15 further sets forth that the policy enforcement point is on the path and at an edge of the network, that the communicating includes configuring the at least one policy enforcement point by installing, at the future activation time, at least one internet protocol traffic filter in the policy enforcement point, that the installing activates the requested reservation of network resources for the destination address on the network, that the internet protocol traffic filter includes a matching criteria and an action, that the matching criteria includes at least one internet protocol network address, and that the matching criteria allows the policy enforcement point to identify at least one packet and to perform the action on the packet, as supported by disclosures in the Specification including step 80 of Fig. 10, lines 21-22 of page 2, lines 2-3 of page 3, line 8 on page 22 through line 4 on page 23, line 15 through line 19 on page 25, and lines 17 through 21 on page 26.

The subject matter of independent claim 29 is directed to apparatus for allocating resources on a network, and includes a processor which executes instructions to receive a request for reservation of network resources, the reservation including a destination address on the network and a future activation time at which the resources are to be activated, as supported by disclosures in the Specification including step 40 of Fig. 3, Fig. 6A, step 52 of Fig. 12, step 68 of Fig. 13, lines 3-5 on page 2, lines 1-2 on page 3, lines 1-3 and 20-23 on page 6, and lines 1-3 on page 7. Claim 29 also sets the processor executing instructions to allocate resources on network devices on a path to the destination address to accommodate the reservation if the network devices have

sufficient resources to accommodate the reservation, wherein the allocating is at the future activation time, and wherein the allocating includes communicating over the network at the future activation time with at least one policy enforcement point, as supported by disclosures in the Specification including steps 46, 48 and 50 of Fig. 3, lines 5-8 on page 2, lines 10-12 on page 3, line 14 on page 12 through line 3 on page 13, lines 19-22 on page 13, and at line 3 on page 24 through line 3 on page 25.

Claim 29 further sets forth that the policy enforcement point is on the path and at an edge of the network, that the communicating includes configuring the at least one policy enforcement point by installing, at the future activation time, at least one internet protocol traffic filter in the policy enforcement point, that the installing activates the requested reservation of network resources for the destination address on the network, that the internet protocol traffic filter includes a matching criteria and an action, that the matching criteria includes at least one internet protocol network address, and that the matching criteria allows the policy enforcement point to identify at least one packet and to perform the action on the packet, as supported by disclosures in the Specification including step 80 of Fig. 10, lines 21-22 of page 2, lines 2-3 of page 3, line 8 on page 22 through line 4 on page 23, line 15 through 19 on page 25, and lines 17 through 21 on page 26.

The subject matter of independent claim 43 is directed to apparatus for allocating resources on a network, and includes means for receiving a request for reservation of network resources, the reservation including a destination address on the network and a future activation time at which the resources are to be

activated, as supported by disclosures in the Specification including step 40 of Fig. 3, Fig. 6A, step 52 of Fig. 12, step 68 of Fig. 13, lines 3-5 on page 2, lines 1-2 on page 3, lines 1-3 and 20-23 on page 6, and lines 1-3 on page 7. Claim 43 also sets forth means for allocating resources on network devices on a path to the destination address to accommodate the reservation if the network devices have sufficient resources to accommodate the reservation, wherein the allocating is at the future activation time, and wherein the allocating includes communicating over the network at the future activation time with at least one policy enforcement point, as supported by disclosures in the Specification including steps 46, 48 and 50 of Fig. 3, lines 5-8 on page 2, lines 10-12 on page 3, line 14 on page 12 through line 3 on page 13, lines 19-22 on page 13, and at line 3 on page 24 through line 3 on page 25.

Claim 43 further sets forth that the policy enforcement point is on the path and at an edge of the network, that the communicating includes configuring the at least one policy enforcement point by installing, at the future activation time, at least one internet protocol traffic filter in the policy enforcement point, that the installing activates the requested reservation of network resources for the destination address on the network, that the internet protocol traffic filter includes a matching criteria and an action, that the matching criteria includes at least one internet protocol network address, and that the matching criteria allows the policy enforcement point to identify at least one packet and to perform the action on the packet, as supported by disclosures in the Specification including step 80 of Fig. 10, lines 21-22 of page 2, lines 2-3 of page 3, line 8 on page 22 through line 4 on

page 23, line 15 through 19 on page 25, and lines 17 through 21 on page 26.

The subject matter of claims 2, 16 and 30 determines if the network devices on the path to the destination address have sufficient resources to accommodate the reservation, as supported by disclosures in the Specification including step 48 of Fig. 3, step 72 of Fig. 13, lines 8-9 on page 12, lines 11-21 on page 16, and lines 8-16 on page 18.

The subject matter of claims 3, 17 and 31 constructs a map of a topology of the network, and stores the map in memory, wherein the determining and the allocating of preceding claims are performed by referencing the map, as supported by disclosures in the Specification including lines 11-15 on page 2, lines 10-14 on page 14, and lines 7-9 on page 21.

The subject matter of claims 4, 18 and 32 sets forth that the constructing of the map is performed periodically to account for changes in the topology of the network, as supported by disclosures in the Specification including lines 14-15 on page 2.

The subject matter of claims 5, 19 and 33 includes determining if the reservation is permitted based on an identity of a transferor, and wherein the allocating of the resource is performed if it is determined that the reservation is permitted, as supported by disclosures in the Specification including step 44 of Fig. 3, step 54 of Fig. 12, lines 16-19 on page 2, page 8 lines 1-4, lines 1-2 on page 12, and lines 14-22 on page 15.

The subject matter of claims 6, 20 and 34 sets forth that the allocating is not performed if it is determined that the reservation is not permitted, as supported

by disclosures in the Specification including step 64 of Fig. 12, page 2 lines 19-21, and lines 17-21 on page 16.

The subject matter of claims 9, 23 and 37 sets forth that the allocating includes allocating resources on the network devices for different classes of service on the network, as supported by disclosures in the Specification including lines 3-7 on page 3 and lines 14-16 on page 7.

The subject matter of claims 10, 24 and 38 sets forth that the different classes of service are defined in data packets to be transmitted over the network, as supported by disclosures in the Specification including lines 18-21 on page 7.

The subject matter of claims 11, 25 and 39 sets forth that the resources include bandwidth of devices on the network, as supported by disclosures in the Specification including line 21 of page 4 through line 1 of page 5.

The subject matter of claims 12, 26 and 40 determines if the destination address is along a path having greater than a predetermined amount of bandwidth, and sets forth that the allocating of resources is performed based on such determining, as supported by disclosures in the Specification including line 18 on page 17 through line 16 on page 18.

The subject matter of claims 14, 28 and 42 sets forth that communicating over the network with the at least one policy enforcement point at the activation time takes place using the COPS/RSVP protocol, as supported by disclosures in the Specification including page 3 lines 12-15, and page 6 lines 10-14.

The subject matter of claim 44 sets forth that the action performed by the policy enforcement point includes marking a packet header of the packet to assign

a predetermined priority to the packet, as supported by disclosures in the Specification including page 26 lines 6-8 and line 21.

The subject matter of claim 45 sets forth that the action performed by the policy enforcement point includes shaping the packet, as supported by disclosures in the Specification including page 26 lines 6-8 and line 21.

The subject matter of claim 46 sets forth that the action performed by the policy enforcement point includes dropping the packet, as supported by disclosures in the Specification including page 26 lines 6-8 and line 21.

The subject matter of claim 47 includes modifying the matching criteria of the internet protocol traffic filter by replacing the at least one internet protocol network address with a range of internet protocol network addresses, as supported by disclosures in the Specification including page 27 line 12 through line 16 on page 28.

Respectfully submitted,

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